

Garant
Solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 10/1,0 mm

Order data

Order number	206324 10/1,0
GTIN	4045197641397
Item class	11X

Description
Version:
GARANT Diabolo 70:

Special solid carbide substrate with extremely high tensile strength combined with **outstanding wear resistance** for optimum process reliability.

Newly developed **nano-crystalline high-tech coating for hard milling up to 70 HRC**. Very suitable **for continuous use** in tool and mould making.

Tolerances:

- **Corner radius: $R_1 = \pm 0.02$ mm.**

Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC.

For profile milling as a finishing operation.

(Plunge milling only to shallow depths).

No. of teeth Z: 6

Helix angle: 45 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 6

Flute length L_c : 10 mm

Corner radius R_1 : 1 mm

Overhang length L_1 incl. recess: 30 mm

Recess Ø D_1 : 9.7 mm

Overall length L: 70 mm

Technical description

Corner radius R_1	1 mm
Feed f_z for side milling in steel < 70 HRC	0.07 mm

Overhang length L_1 incl. recess	30 mm
Feed f_z for copy milling in steel < 70 HRC	0.07 mm
No. of teeth Z	6
Cutting edge $\varnothing D_c$	10 mm
Recess $\varnothing D_1$	9.7 mm
Shank $\varnothing D_s$	10 mm
Flute length L_c	10 mm
Overall length L	70 mm
Shank	DIN 6535 HA to h6
Helix angle	45 degrees
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal \varnothing	0 / -0.02
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	0.05×D for copy milling
Cutting width a_e for milling operation	0.05×D for side milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	red
Type of product	End mill

Services

Shank recess Type FRST	209900 FRST
Shank grinding Type HB	129100 HB

